

FE3,19 1982

U.S. DEPARTMENT OF LABOR WORKPLACE STANDARDS ADMINISTRATION

KPLACE STANDARDS ADMINISTRATION
BUREAU OF LABOR STANDARDS

FORM NO OSHA-20 (MODIFIED) MAY 1970 PL MDC CONTROL NO. 1956

MATERIAL SAFETY DATA SHEET

SECTION	1: MATE	RIAL AND MA	ANUFACTURER IDENTIFICATION		
MANUFACTURER'S NAME			EMERGENCY TEL		E NO.
CPR Division, The Upjohn Compa	iny '		(213) 320-3	5550	
ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP (555 Alaska Avenue, Torrance, Ca		nia 90503	grand the estimate of the control of the control of		- 100
CHEMICAL NAME AND SYNONYMS	111011	11.d 30300	TRADE NAME AND SYNONYMS (QPL 195	6 Tvr	oe 2 & 3)
Toluene diisocyanate (TDI)			Isonate® CPR 2033C Compor		
CHEMICAL FAMILY Isocyanate			FORMULA CH C H (NCO)		
Isocyanace	CEATI	ON U. HAZAT	CH ₃ C ₆ H ₃ (NCO) ₂		
	3ECII	TLV	RDOUS INGREDIENTS*		TLV
PAINTS, PRESERVATIVES/SOLVENTS	%	(UNITS)	ALLOYS AND METALLIC COATINGS	%	(UNITS)
PIGMENTS		~ · · ·	BASE METAL		
CATALVCT	 - 		ALLOYS		
CATALYST		' ~	ALLOYS		•
VEHICLE	+		METALLIC COATINGS		
SOLVENTS	17	3.00	FILLER METAL PLUS		,
AG INVENTED			COATING OR CORE FLUX	+	
ADDITIVES		- **	OTHERS:		*
OTHERS					
HAZARDOUS M	XTURES	OF OTHER	F OTHER LIQUIDS, SOLIDS, OR GASES*		TLV
	121-			 	(UNITS)
Toluene diisocyanate	-		•	100	0.02 ppn
Totalio attocoj anace				1.	TTT PP
	1 7 -				-
	Š	ECTION III: E	PHYSICAL DATA		
		LONON III. I	SPECIFIC GRAVITY (H.O.= 1)		-
BOILING POINT (⁰ F)		484	77°F		1.22
VAPOR PRESSURE (mm Hg.) 77°F		0.01	PERCENT VOLATILE		1,00
		0.01	BY VOLUME (%) EVAPORATION RATE		100
VAPOR DENSITY (AIR = 1)		6	(Water = 1)		> 1
					+
SOLUBILITY IN WATER		Reacts			
APPEARANCE AND ODOR Colorless to vel	low l	ianid, bu	ingent irritating odor		
			EXPLOSION HAZARD DATA		
FLASH POINT (METHOD USED)	TIUN IV	. FIRE AND E	FLAMMABLE LIMITS Lei	$\overline{}$	Uel
270 ^O F. Tag Open Cu			Unknow	wn T	Jnknown
EXTINGUISHING MEDIA Water, CO ₂ , for	am, d	ry chemi	cal		
SPECIAL FIRE FIGHTING PROCEDURES					
xcessive heat and thermal decor	mposi	tion gen	erates irritating and possibly toxic for	ımes	and
isocvanate vanors. Fire fighters	shou	ld wear	self-contained breathing apparatus.		
UNUSUAL FIRE AND EXPLOSION HAZARDS	5.10u	Zu Wou	poir contamos produming apparatus.	-	
		ـــــر ـــــــــــــــــــــــــــــــ			

<u> </u>			SEC.	TIO	ON V: HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE					WY. HEREITHAZARU DATA	
ESSECTE OF OVEREY POSITIO	<u></u>	0.0)2 ppr	n		
Lachrymator. Ir		, no	se an	ıd t	throat. Massive exposure to high vapor concentration	
may cause brond	hitis, brond	chial	. spas	m	or pulmonary edema. May be allergenic.	
EMERGENCY AND FIRST AID						
Remove from cor	itaminated a	rea.	It bi	rea	athing is labored, oxygen should be administered by	
trained personne	el. Obtain r	nedi	cal at	ter	ention.	
		C.				
				CTIO	ON VI: REACTIVITY DATA	
	UNSTABLE CONDITIONS TO AVOID				IS TO AVOID	
STABILITY		+				
	STABLE	Х	Excessive heat			
INCOMPATIBILITY (MATERIA	i	Atmo	spher	ic	moisture, strong bases.	
HAZARDOUS DECOMPOSITION Isocyanate vapo	rs, CO, CO	2, ti	races	of	f nitrogen oxides and HCN.	
HAZARDOUS	MAY OCC	UR			CONDITIONS TO AVOID	
POLYMERIZATION	WILL NOT	r occi	JR	X	Moisture. Confinement in a closed container in the	
presence of mois	sture may le	ad to	o dang	ger	rous pressure (CO ₂) generation.	
	<u> </u>				II: SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE		LEASE	ED OR SF	기니	LED	
Cover spill with	sawdust or	othe	r abs	ork	bent material. Neutralize with dilute	
aqueous ammoni	<u>a/isopropan</u>	ol so	<u>olutio</u>	n.	Neutralized material (solid polyurea) is innocuous.	
WASTE DISPOSAL METHOD	ogo of by	017 01	tandaı	~~l ·	method consistent with good industrial practice.	
bweep up. Disp	ose or by a	ily Si	<u>.anuai</u>	i u	method consistent with good madistral practice.	
		05.0				
RESPIRATORY PROTECTION	(SPECIFY TYPE)	_ SEC	I IUN VII	i: Sr	SPECIAL PROTECTION INFORMATION	
In confined area	s, chemical	cart	ridge	re	espirator or independent air supply face mask.	
LOCAL EXHAUST SPECIAL						
VENTILATION Recommended MECHANICAL (GENERAL) OTHER						
DOCTECTIVE OF OVER		·	Recon	nme	nended EYE PROTECTION	
PROTECTIVE GLOVES	Recommend	ed			In face mask or wear chemical goggles.	
OTHER PROTECTIVE EQUIPM						
A Company of the Comp	Nor	ne re	quired		N IX: SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN			RING			
Store in unopene	d containers	s at	<u>70-90</u>) ^U F	F. If entire content of container is not used at one	
time, replace ou	tage with dr	y ni	troge	ń.		
	Dro exceed:	s 501	 	/k	kg in rats. Do not ingest.	
	- 50 onocoa,		mg	, <u>.</u>		
S. J. Assony, Pl	n.D.				19 December 1972	
PREPARED BY					DATE	



U.S. DEPARTMENT OF LABOR

WORKPLACE STANDARDS ADMINISTRATION BUREAU OF LABOR STANDARDS

FORM NO OSHA-20 (MODIFIED) MAY PL MDC CONTROL NO. 1956

MATERIAL SAFETY DATA SHEET

SECTION I:	MAT	ERIAL AND MA	NUFACTURER IDENTIFICATION		
MANUFACTURER'S NAME		EMERGENCY TELEPHONE NO.			
CPR Division, The Upjohn Company (213) 320-3550)
ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CO					
555 Alaska Avenue, Torrance,	Ca	ilifornia 9	00503		
CHEMICAL NAME AND SYNONYMS			TRADE NAME AND SYNONYMS(QPL 195		
	moi	nium phos	phate Isonate® CPR 2033C Comp	onen	<u>t B</u>
CHEMICAL FAMILY			FORMULA (TOTAL CONTROL)		
DNA (mixture)	05.07	100 11 116700	DNA (mixture)		
	<u>SEU I</u>		DOUS INGREDIENTS*	-	TLV
PAINTS, PRESERVATIVES/SOLVENTS	%	TLV (UNITS)	ALLOYS AND METALLIC COATINGS	%	TLV (UNITS)
PIGMENTS		,	BASE METAL		
Titanium dioxide	7	Unknown			
CATALYST			ALLOYS 1		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS	1	
			COATING OR CORE FLUX		
ADDITIVES			OTHERS		-
		-		+	
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES* %				TLV (UNITS)	
		~ · · ·		†	
Polyadipate ester polyol 75				Unknown	
Monoammonium phosphate				15	
Monoaumonium buospiiate				+	
		SECTION III: PI	HYSICAL DATA		
BOILING POINT (°F)		DNA	SPECIFIC GRAVITY (H ₂ 0 = 1)	<u> </u>	1.1
VAPOR PRESSURE (mm Hg.)		Ni1	PERCENT VOLATILE BY VOLUME (%)		Nil
		-	EVAPORATION RATE		-
VAPOR DENSITY (AIR = 1)		DNA	(=1)		DNA
SOLUBILITY IN WATER		Nil			
APPEARANCE AND ODOR Grey pasty resin	0118	mivture	Very little odor.		
			XPLOSION HAZARD DATA		
FLASH POINT (METHOD USED)	IUN IN	V. FIRE AND E	FLAMMABLE LIMITS Let		Uel
	. o.	C.)	None kr	lown	None
EXTINGUISHING MEDIA	. ~·	<u>: /</u>	1 110110 111	<u> </u>	KHOW D
Water, foam,	CO	dry ch	nemical		
SPECIAL FIRE FIGHTING PROCEDURES		4		9. 1	
None require	d.				
			-		
THEORIAL FIRE AND EVEL CALCULATION					<u>.</u>
UNUSUAL FIRE AND EXPLOSION HAZARDS Thermal decomposition of monoa	mm	onium ph	osphate produces ammonia		

*PLEASE DO NOT USE GENERALIZATIONS, SUCH AS PETROLEUM HYDROCARBONS, ALCOHOL, KETONES.

USE SPECIFIC CHEMICAL NAMES, SUCH AS METHANOL, BENZENE, PERCHLOROETHYLENE.

			SECTION V: HEALTH HAZARD DATA
THRESHOLD LIMIT VALUE			OLOTION TO HEALTH AMERICA DATA
EFFECTS OF OVEREYBOOK		nown	
EFFECTS OF OVEREXPOSE	Non	e	
	11011		
EMERGENCY AND FIRST AI		e requ	nired
·	Non	.c rcq.	
		6	SECTION VI: REACTIVITY DATA
	UNOTA SI E	′ - CC	ONDITIONS TO AVOID
STABILITY	UNSTABLE		
,	STABLE	X	DNA
INCOMPATIBILITY (MATER	IALS TO AVOID)		
			DNA
HAZARDOUS DECOMPOSITI	11	erma	1 decomposition produces ammonia, CO, CO ₂ and
traces of nitro	9		N CONDITIONS TO AVOID
HAZARDOUS	MAY OCC	UR	GONETHONS TO AVOID
POLYMERIZATION	WILL NOT	COCCUR	X
·			
			CTION VII: SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CA			or spicied
methylene chlo	ride, observ	ing m	anufacturer's precautions.
WASTE DISPOSAL METHOD			
Dispose of by a	any standard	metho	od consistent with good industrial practice for viscous
liquids. May l	oe incinerate	d.	
			<u> </u>
RESPIRATORY PROTECTIO	N (CDECIEV TVDE)	SECTIO	ON VIII: SPECIAL PROTECTION INFORMATION
		ith CF	PR 2033C Component A, see Safety Data Sheet.
	OCAL EXHAUST		SPECIAL
VENTILATION	When used MECHANICAL (GENE		Component A
, in			Component A
PROTECTIVE GLOVES			EYE PROTECTION
	t required		Chemical goggles
OTHER PROTECTIVE EQUIL No.	PMENI ne required		
			SECTION IX: SPECIAL PRECAUTIONS
PRECAUTIONS TO BE TAKE		D STORIN	NG
Store in unc	opened contai	ners	at 70-90°F.
OTHER PRECAUTIONS	u o d		
None requir	rea.		
S. J. Assony,	מא דו	^	19 December 1972
PREPARED BY	<u>, F</u> 11. 1. 1. 1		DATE